-	Application N	o. A	pplicant(s)
Notice of Allowability	09/765,650 Examiner		EE ET AL.
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	Martin Lemer	26	654
The MAILING DATE of this communication application application application and the communication application of the Mailing allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8: NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3:	S (OR REMAINS) 5) or other approp RIGHTS . This app	CLOSED in this applica riate communication will plication is subject to will	ation. If not included I be mailed in due course. THIS
1. This communication is responsive to <u>02 February 2005</u> .			
2. The allowed claim(s) is/are <u>1 to 8</u> .			
3. \boxtimes The drawings filed on <u>02 February 2005</u> are accepted by	the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 1. Let a copie of the priority documents have 2. Let a copie of the priority documents have 3. Let a copie of the certified copies of the priority documents have 2. Let a copie of the priority documents have 3. Let a copie of the priority documents have	ve been received. ve been received i	n Application No.	- onal stage application from the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	er of this communication. IMENT of this apple.	ation to file a reply comication.	oplying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gi	mitted. Note the at ves reason(s) why	tached EXAMINER'S A the oath or declaration	MENDMENT or NOTICE OF is deficient.
 CORRECTED DRAWINGS (as "replacement sheets") medical including changes required by the Notice of Draftspeen 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examine Paper No./Mail Date Identifying indicial such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in 	rson's Patent Drav r's Amendment / (1.84(c)) should be	Comment or in the Office	e action of
7. DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGI T FOR THE DEPC	CAL MATERIAL mus ISIT OF BIOLOGICAL N	t be submitted. Note the MATERIAL.
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit) 6. □ 1 /08), 7. □ 1 8. ⊠ 1	Interview Summary (PT Paper No./Mail Date _ Examiner's Amendment Examiner's Statement o	·
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Application/Control Number: 09/765,650

Art Unit: 2654

EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

The prior art of record does not disclose or fairly suggest the combination of FIR filtering of a 12-bit digital signal with powers-of-two conversion and a radial basis function neural network. Wang discloses speech recognition with A/D conversion to produce 12 bit samples (column 4, lines 42 to 56), characteristic feature extraction. which may be noise-resistant (column 5, lines 10 to 60), and a classifier for detecting boundaries between spoken sounds with a discriminant function based on a radial basis function (column 6, lines 5 to 36). Jiang ("FIR filter design and implementation with powers-of-two coefficient") teaches it is known to design FIR filters with powers-of-two coefficients. However, the combination of Wang and Jiang does not disclose a word boundary detection section that detects word boundaries instead of boundaries between spoken sounds, a neural network for carrying out the discriminant function, a normalization/recognition section that carries out timing normalization, or a rationale to utilize an FIR filter with powers-of-two conversion to filter a speech signal for speech recognition. The prior art does not disclose or suggest FIR filters with powers-of-two conversion for speech recognition. Thus, the prior art of record does not disclose or reasonably suggest the invention as claimed. The Specification, Page 1, Lines 8 to 12, and Page 3, Line 22 to Page 4, Line 8, discloses advantages for the claimed combination of a practical voice recognition section that is insensitive to external noise, low in power consumption, and high in efficiency.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Martin Lerner whose telephone number is (571) 272-7608. The examiner can normally be reached on 8:30 AM to 6:00 PM Monday to Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on (571) 272-7602. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ML 4/28/05

Martin Lerner

Examiner

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